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## **Listing of the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Amendments to the Claims:

- 1. (Currently Amended) A method, comprising:
- a) illuminating a forensic sample with light of a first wavelength  $\lambda_1$ ; then
- b) imaging a first image of the forensic sample using the light emitted from the sample at a second wavelength  $\lambda_2$ , the second wavelength filtered by an electro-optical tunable filter; then
- c) imaging a second image of the forensic sample using the light emitted from the sample at a third wavelength  $\lambda_3$  different from  $\lambda_2$ , the third wavelength filtered by an electro-optical tunable filter; then
- c) creating a calculated image of the forensic sample from the first image and the second image.
- 2. (Original) The method of claim 1, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second image pixels.
- 3. (Original) The method of claim 2, wherein the subset of at least one of the first and second image pixels is a subset chosen outside an area of interest of the at least one of the first and second images.

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4. (Original) The method of claim 3, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside an area of interest from the image formed by light of wavelength  $\lambda_3$  and  $\lambda_2$  where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.

- 5. (Original) The method of claim 1, wherein the forensic sample is an object carrying a suspected fingerprint.
- 6. (Original) The method of claim 5, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.
- 7. (Original) The method of claim 6, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of the suspected fingerprint.
- 8. (Original) The method of claim 7, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside the area of the suspected fingerprint from the image formed by light of wavelength  $\lambda_3$  and  $\lambda_2$ , where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.
- 9. (Original) The method of claim 1, wherein the forensic sample is an object carrying ink.
- 10. (Original) The method of claim 9, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.
- 11. (Original) The method of claim 10, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of the ink.

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12. (Original) The method of claim 11, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength λ from outside the area of ink from the images formed by light of wavelength λ<sub>3</sub> and λ<sub>2</sub>, where λ is λ<sub>3</sub> or λ<sub>2</sub> or another wavelength.

- 13. (Original) The method of claim 1, wherein the forensic sample is an object carrying suspected gunshot residue.
- 14. (Original) The method of claim 13, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.
- 15. (Original) The method of claim 14, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of interest of the suspected gunshot reside.
- 16. (Original) The method of claim 15, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength λ from outside the area of the suspected gunshot residue from the images formed by light of wavelength λ<sub>3</sub> and λ<sub>2</sub>, where λ is λ<sub>3</sub> or λ<sub>2</sub> or another wavelength.
- 17. (Original) The method of claim 1, wherein the forensic sample is an object carrying a suspected condom lubricant.
- 18. (Original) The method of claim 17, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.

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19. (Original) The method of claim 18, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of the suspect condom lubricant.

- 20. (Original) The method of claim 19, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside the area of the suspected condom lubricant from the images formed by light of wavelength  $\lambda_3$  and  $\lambda_2$ , where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.
- 21. (Original) The method of claim 1, wherein the forensic sample is a multilayer paint chip.
- 22. (Original) The method of claim 21, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.
- 23. (Original) The method of claim 22, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of interest in the multiplayer paint chip..
- 24. (Original) The method of claim 23, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside the area of interest from the image formed by light of wavelength  $\lambda_3$  and  $\lambda_2$ , where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.
- 25. (Original) The method of claim 1, wherein the forensic sample is a fiber.
- 26. (Original) The method of claim 25, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.

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27. (Original) The method of claim 26, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of interest of the fiber.

- 28. (Original) The method of claim 27, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside the area of the fiber from the images formed by light of wavelength  $\lambda_3$  and  $\lambda_2$ , where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.
- 29. (Original) The method of claim 1, wherein the forensic sample is a thin layer chromatography plate.
- 30. (Original) The method of claim 29, further comprising correcting the calculated image using signals extracted from at least one of the first and second images, the signal extracted from a subset of pixels from at least one of the first and second images.
- 31. (Original) The method of claim 30, wherein the subset of at least one of the first and second image pixels is a subset chosen outside the area of interest on the thin layer chromatography plate.
- 32. (Original) The method of claim 31, wherein the correcting of the calculated image comprises subtracting a background signal provided by light of a wavelength  $\lambda$  from outside the area of interest from the images formed by light of wavelength  $\lambda_3$  and  $\lambda_2$ , where  $\lambda$  is  $\lambda_3$  or  $\lambda_2$  or another wavelength.